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- (71) Applicant (for all designated States except US): PI-COMETRIX, INC. [US/US]; 2925 Boardwalk, Ann Arbor, MI 48104 (US).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): KO, Cheng, C. [US/US]; 713 Skynob Drive, Ann Arbor, MI 48105 (US). LEVINE, Barry [US/US]; 22 Bear Brook Lane, Livingston, NJ 07039 (US).
- (74) Agents: KENNEDY, Ryan, B. et al.; Brinks Hofer Gilson & Lione, P.O. Box 10087, Chicago, IL 60610 (US).

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Declaration under Rule 4.17:

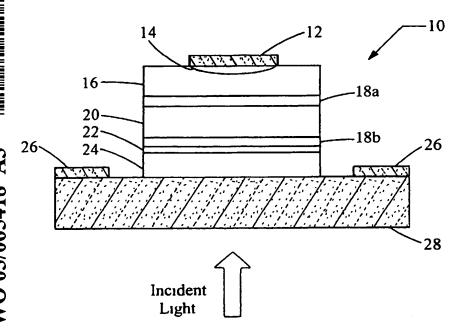
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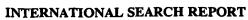
(54) Title: PLANAR AVALANCHE PHOTODIODE



(57) Abstract: The present invention includes a planar avalanche photodiode (10) having a first n-type semiconductor layer (28) defining a planar contact area, and a second n-type semiconductor layer (16) having a p-type diffusion region (14). Further features of the structure include an n-type semiconductor multiplication layer (24), an n-type semiconductor absorption layer (20), and a p-type contact layer (12). Further embodiments include a planar avalanche photodiode (210) having a first n-type semiconductor layer (28) defining a planar contact an n-type semiconductor multiplication layer (24), an n-type semiconductor absorption layer (20) and a p-type semiconductor layer (32) electrically coupled to a p-type contact layer (12).

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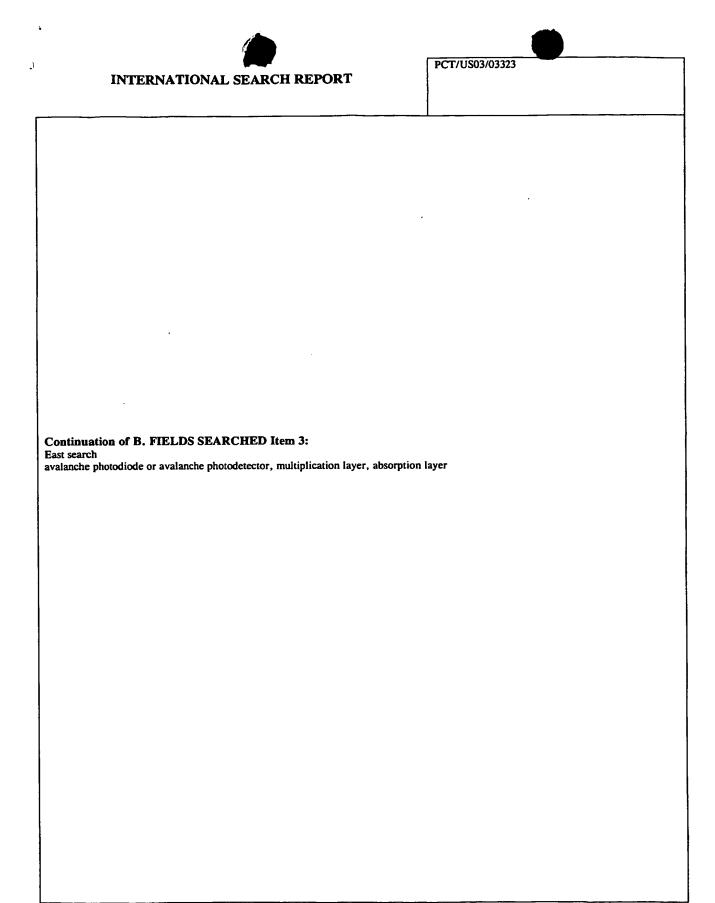
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International application N	lo.
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A. CLASSIFICATION OF SUBJECT MATTER IPC(7) : H01L 31/072, 31/109, 31/0328 US CL : 257/183, 183, 185, 186, 190, 191 According to International Patent Classification (IPC) or to both national classification and IPC					
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B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) U.S.: 257/183, 183, 185, 186, 190, 191					
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched None					
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) Please See Continuation Sheet					
C. DOC	UMENTS CONSIDERED TO BE RELEVANT				
Category *	Citation of document, with indication, where ar		Relevant to claim No.		
Y	US 5,552,629 A (WATANABE) 03 September 1996	(03.09.1996), see entire reference.	1-30		
Y	US 4,840,916 A (YASUDA et al.) 20 June 1989 (20.06.1989), see entire reference.		1-30		
	r documents are listed in the continuation of Box C.	See patent family annex.			
"A" documen	Special categories of cited documents: It defining the general state of the art which is not considered to be ular relevance	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention			
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